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PTO/SB/21 (09-04)

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/766,638
Filing Date	January 28, 2004
First Named Inventor	Holmes-Farley et al.
Art Unit	1615
Examiner Name	James M. Spear
Total Number of Pages in This Submission	41
Attorney Docket Number	103.1D1C4

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Statement under 37 CFR 3.73(b) and supplemental sheet
<b>Remarks</b>		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

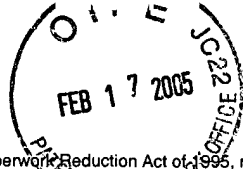
Firm	Genzyme Corporation		
Signature			
Printed Name	Richard D. Allison		
Date	February 15, 2005	Reg. No.	31,584

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Michele Silver	Date	February 15, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE  
ADDRESS**

Application Number	10/766,638
Filing Date	January 28, 2004
First Named Inventor	Holmes-Farley et al.
Art Unit	1615
Examiner Name	James M. Spear
Attorney Docket Number	103.1D1C4

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney is submitted herewith.**OR**☒ I hereby appoint the practitioners at Customer Number :

24536

☒ Please change the correspondence address for the above-identified application to:☒ The address associated with  
Customer Number:

24536

**OR**☒ Firm or  
Individual Name

Genzyme Corporation

Address

15 Pleasant Street Connector  
Legal Department

City

Framingham

State

MA

ZIP

01701

Country

US

Telephone

(617) 252-7500

Fax

(508) 872-5415

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature

Name

Richard D. Allison, Managing IP Counsel with Attached Signature Authority

Date

February 15, 2005

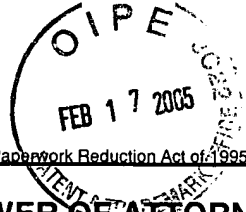
Telephone

(508) 270-2583

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/766,638
Filing Date	January 28, 2004
First Named Inventor	Holmes-Farley et al.
Title	Phosphate-Binding Polymers, Etc.
Art Unit	1615
Examiner Name	James M. Spear
Attorney Docket Number	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.**

**I hereby appoint:**

☒ Practitioners associated with the Customer Number:

24536

**OR**

☒ Practitioner(s) named below:

Name	Registration Number
Richard D. Allison	31,584
Isabelle A.S. Blundell	43,321
Robert J. Cobert	36,108
Thomas J. DesRosier	30,168

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number

**OR**

☒ The address associated with Customer Number:

24536

**OR**

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector Legal Department				
City	Framingham	State	MA	ZIP	01701
Country	US				
Telephone	(617) 252-7500	Fax	(508) 872-5415		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

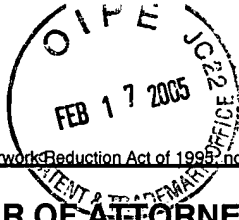
Signature		Date	February 15, 2005
Name	Richard D. Allison	Telephone	(508) 270-2583
Title and Company	Managing Intellectual Property Counsel with Attached Signature Authority		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**POWER OF ATTORNEY  
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CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/766,638
Filing Date	January 28, 2004
First Named Inventor	Holmes-Farley et al.
Title	Phosphate-Binding Polymers, Etc.
Art Unit	1615
Examiner Name	James M. Spear
Attorney Docket Number	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.****I hereby appoint:**☒ Practitioners associated with the Customer Number:

24536

**OR**☒ Practitioner(s) named below:

Name	Registration Number
Deborah A. Dugan	37,315
Jennifer L. Dupre	41,722
Madge R. Kanter	35,211
Elizabeth Lassen	31,845

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number**OR**☒ The address associated with Customer Number:

24536

**OR**☒ Firm or  
Individual Name

Genzyme Corporation

Address

15 Pleasant Street Connector  
Legal Department

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Framingham

State

MA

ZIP

01701

Country

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I am the:

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**SIGNATURE of Applicant or Assignee of Record**

Signature

Date

February 15, 2005

Name

Richard D. Allison

Telephone

(508) 270-2583

Title and Company

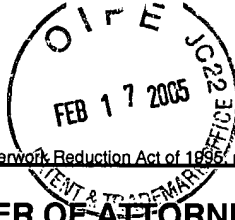
Managing Intellectual Property Counsel with Attached Signature Authority

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First Named Inventor	Holmes-Farley et al.
Title	Phosphate-Binding Polymers, Etc.
Art Unit	1615
Examiner Name	James M. Spear
Attorney Docket Number	103.1D1C4

**I hereby revoke all previous powers of attorney given in the above-identified application.**

**I hereby appoint:**

☒ Practitioners associated with the Customer Number:

24536

**OR**

☒ Practitioner(s) named below:

Name	Registration Number
Bart G. Newland	31,282
Jennifer D. Tousignant	54,498
Y. Philip Zhang	44,372

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number

**OR**

☒ The address associated with Customer Number:

24536

**OR**

<input checked="" type="checkbox"/> Firm or Individual Name	Genzyme Corporation				
Address	15 Pleasant Street Connector Legal Department				
City	Framingham	State	MA	ZIP	01701
Country	US				
Telephone	(617) 252-7500	Fax	(508) 872-5415		

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☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	February 15, 2005
Name	Richard D. Allison	Telephone	(508) 270-2583
Title and Company	Managing Intellectual Property Counsel with Attached Signature Authority		

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

genzyme




**Genzyme Corporation**

500 Kendall Street  
Cambridge, MA 02142  
Tel.: (617) 252-7500  
Fax: (617) 252-7553

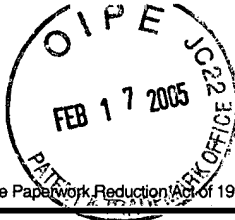
**SIGNATURE AUTHORITY**

I, Thomas J. DesRosier, Senior Vice President and General Counsel of Genzyme Corporation hereby appoint Madge R. Kanter, Richard D. Allison, Elizabeth Lassen and Bart G. Newland, all Managing Intellectual Property Counsel of Genzyme Corporation, with full power and authority to transact any and all business before the United States Patent and Trademark Office, and any foreign counterpart patent office, with the powers of a Corporate Officer of Genzyme Corporation.

Date: December 2, 2003



Thomas J. DesRosier, Esq.  
Senior Vice President and General Counsel  
GENZYME CORPORATION



**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Stephen Randall Holmes-Farley et al.

Application No./Patent No.: 10/766,638

Filed/Issue Date: January 28, 2004

Entitled: Phosphate-Binding Polymers for Oral Administration

Genzyme Corporation

a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Stephen R. Holmes-Farley, Harry W. Mandeville, III, and George M. Whitesides  
To: Geltex, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 6711, Frame 0377, or for which a copy thereof is attached.

2. From: Stephen R. Holmes-Farley, Harry Mandeville, III, and George M. Whitesides  
To: Geltex, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 7140, Frame 0809, or for which a copy thereof is attached.

3. From: Stephen Randall Holmes-Farley, Harry W. Mandeville, III and George M. Whitesides To: Geltex Pharmaceuticals, Inc.

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- ☒ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (i.e., a true copy of the original document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Richard D. Allison

Printed or Typed Name

February 15, 2005

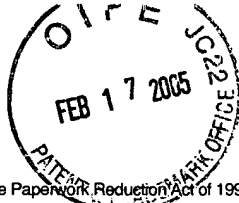
Date

(508) 270-2583

Telephone Number

Richard D. Allison, Managing IP  
Counsel with Attached  
Signature Authority

Title



**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Stephen Randall Holmes-Farley et al.

Application No./Patent No.: 10/766,638

Filed/Issue Date: January 28, 2004

Entitled: Phosphate-Binding Polymers for Oral Administration

Genzyme Corporation

a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

**OR**

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Geltex Pharmaceuticals, Inc. To: Genzyme Corporation

The document was recorded in the United States Patent and Trademark Office at Reel 014022, Frame 0197, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

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3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

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The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

  
Signature

Richard D. Allison

Printed or Typed Name

Richard D. Allison, Managing IP  
Counsel with Attached  
Signature Authority

Title

February 15, 2005

Date

(508) 270-2583

Telephone Number

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SUPPLEMENTAL SHEET





**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
 ASSISTANT SECRETARY AND COMMISSIONER  
 OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231

PAUL T. CLARK, ESQ.  
FISH & RICHARDSON  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804

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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:  
HOLMES-FARLEY, STEPHEN R.

DOC DATE: 09/10/93

ASSIGNOR:  
MANDEVILLE, W. HARRY, III

DOC DATE: 09/10/93

ASSIGNOR:  
WHITESIDES, GEORGE M.

DOC DATE: 09/21/93

RECORDATION DATE: 10/04/93    NUMBER OF PAGES 003    REEL/FRAME 6711/0377

**DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST**

ASSIGNEE:  
GELTEX, INC.  
128 SPRING STREET  
LEXINGTON, MASSACHUSETTS 02173

SERIAL NUMBER	8-105591	FILING DATE	08/11/93
PATENT NUMBER		ISSUE DATE	00/00/00

EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

\* No Docketing Required \*

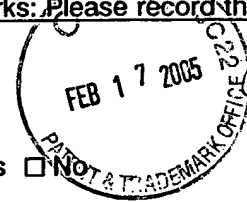
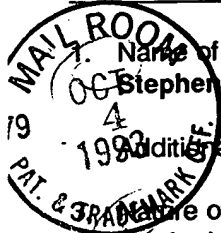
Reviewed By Practice Systems  
Initials: *Jme*  
Reviewed By Billing Secretary  
Initials: \_\_\_\_\_

# COORDINATION FORM COVER SHEET PATENTS ONLY

40-581

①

Commissioner of Patents and Trademarks: Please record the attached original document.



RECEIVED  
93 OCT 25 AM 9:49  
ASSIGNMENT BRANCH

1. Name of conveying party(ies):  
Stephen R. Holmes-Farley

2. Name and address of receiving party(ies):  
Geltex, Inc.  
128 Spring Street  
Lexington, MA 02173

3. Additional name(s) attached? ☒ Yes ☐ No

Additional names/addresses attached? ☐ Yes ☒ No

4. Mode of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: September 10, 1993

5. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):  
08/105,591 filed 8/11/93

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

6. Name/address of party to whom correspondence concerning document should be mailed:

Paul T. Clark, Esq.  
Fish & Richardson  
225 Franklin Street  
Boston, MA 02110-2804

7. Total number of applications/patents involved: 1

8. Total fee (37 CFR 3.41): \$40

- ☒ Enclosed  
☐ Authorized to charge deposit account

9. Deposit account number: 06-1050

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

DO NOT USE THIS SPACE

10. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Dorothy P. Whelan, Reg. No. 33,814

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 3

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1 581

40004  
9/28/93

91709399

Date of Deposit

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Judith A. Puleo  
Judith A. Puleo

REEL 6711 FRAME 377

## ASSIGNMENT

For valuable consideration, we, Stephen Randall Holmes-Farley of Arlington, Massachusetts; W. Harry Mandeville, III, of Lynnfield, Massachusetts; and George McClelland Whitesides of Newton, Massachusetts hereby assign to Geltex, Inc., a Delaware corporation having a place of business at Lexington, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent No. 08/105,591 filed August 11, 1993, entitled PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Waltham, Mass.  
this 10<sup>th</sup> day of September, 1993  
Stephen Randall Holmes-Farley L.S.  
STEPHEN RANDALL HOLMES-FARLEY

STATE OF Massachusetts :  
:SS.  
COUNTY OF Middlesex :

Before me this 10<sup>th</sup> day of September, 1993 personally appeared Stephen Randall Holmes-Farley known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M Bjorkman  
Notary Public

My Commission Expires:

[Notary's Seal Here]

DOREEN M. BJORKMAN  
NOTARY PUBLIC  
My commission exp Sept 30, 1999

REF 6711 FRAME 378

IN WITNESS WHEREOF, I here set my hand and seal at WALTON, MA  
this 10 day of SEPT, 1993

W. Harry Mandeville, III L.S.  
W. HARRY MANDEVILLE, III

STATE OF MASSACHUSETTS :  
COUNTY OF MIDDLESEX :SS.

Before me this 10<sup>th</sup> day of September, 1993 personally appeared W. Harry Mandeville known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M. Bjorkman  
Notary Public

My Commission Expires:

[Notary's Seal Here]

DOREEN M. BJORKMAN  
NOTARY PUBLIC  
My commission exp Sept 30 1999

REEL 6711 FRAME 379

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge MA  
this 21 day of Sept, 1993

George McClelland Whitesides L.S.  
GEORGE McCLELLAND WHITESIDES

STATE OF Massachusetts :  
COUNTY OF Middlesex :SS.

Before me this 21<sup>st</sup> day of Sept, 1993, personally appeared George M. Whitesides known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Susan A. Rothfuss  
Notary Public

My Commission Expires: 2-27-98

[Notary's Seal Here]

OCT -4 93

RECORDED  
PATENT AND TRADEMARK  
OFFICE



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
 ASSISTANT SECRETARY AND COMMISSIONER  
 OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231

**ASSIGNMENT/CERTIFICATION SERVICES DIVISION**

IN WITNESS WHEREOF, I here. set my hand and seal at Wal. 2m, MA

this 9 day of June, 1994  
W H M L.S.

First Middle Initial Last  
W. Harry Mandeville, III

STATE OF MASSACHUSETTS :  
:SS.

COUNTY OF MIDDLESEX :

Before me this 9 day of June, 1994, personally appeared W. Harry Mandeville, III known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M Bjorkman  
Notary Public

My Commission Expires: DOREEN M. BJORKMAN  
NOTARY PUBLIC  
My commission exp. Sept. 30, 1999

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Cambridge, Ma.

this 5 day of August, 1994  
George McClelland Whitesides L.S.

First Middle Initial Last  
George McClelland Whitesides

STATE OF Massachusetts :  
:SS.

COUNTY OF Middlesex :

Before me this 5 day of August, 1994, personally appeared George Whitesides known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

George Whitesides  
Notary Public

My Commission Expires:  
My Commission Expires May 11, 2001

[Notary's Seal Here]

RECORDED  
PATENT AND TRADEMARK  
OFFICE  
AUG 30 1994

REEL 7140 FRAME 811

## ASSIGNMENT

For valuable consideration, we, Stephen Randall Holmes-Farley, of Arlington, MA; W. Harry Mandeville, III of Lynnfield, MA; George McClelland Whitesides of Newton, MA; hereby assign to Geltex Inc., a Massachusetts corporation having a place of business at 128 Spring Street, Lexington, MA 02173, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Waltham, MA,  
this 9<sup>th</sup> day of JUNE, 1994  
Stephen Randall Holmes-Farley L.S.  
First Middle Initial Last  
Stephen Randall Holmes-Farley

STATE OF MASSACHUSETTS :

:SS.

COUNTY OF MIDDLESEX :

Before me this 9<sup>th</sup> day of JUNE, 1994, personally appeared Stephen R Holmes-Farley known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Doreen M. Bjorkman  
Notary Public

[Notary's Seal Here]

My Commission Expires:

DOREEN M. BJORKMAN  
NOTARY PUBLIC

My commission exp Sept 30, 1999

REEL 7140 FRAME 810

40-581

# CORDATION FORM COVER SHEET PATENTS ONLY

Attorney Docket No.: 05329/009001

Commissioner of Patents and Trademarks: Please record the attached original document.

1. Name of conveying party(ies):  
**Stephen R. Holmes-Farley,  
 Harry Mandeville, III  
 George M. Whitesides**

Additional name(s) attached? ☐

2. Name and address of receiving party(ies):  
**Geltex Inc.  
 303 Bear Hill Road  
 Waltham, MA 02154**

Additional names/addresses attached? ☐ Yes ☒ No

3. Nature of conveyance: *19*  
☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: 6/9/94

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s):  
**08/238,458**

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

**Dorothy P. Whelan  
 Fish & Richardson  
 225 Franklin Street  
 Boston, MA 02110-2804**

6. Total number of applications/patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40**  
☒ Enclosed  
☐ Authorized to charge deposit account

8. Deposit account number: **06-1050**  
 If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

DO NOT USE THIS SPACE

9. Statement and signature: *To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.*

**Dorothy P. Whelan**  
 Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **3**

100 FS 09/06/94 08238458

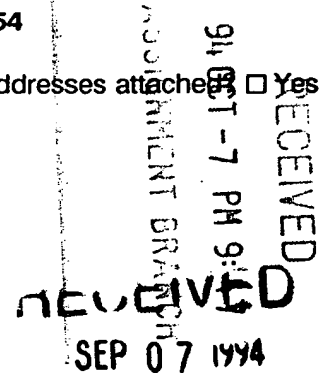
1 581

40.00 CK

Date of Deposit

I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

*Judith A. Puleo*  
 Judith A. Puleo



REEL 7140 FRAME 809

93700642





**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DECEMBER 09, 1995

PTAS

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.  
ATTN: DAVID E. BROOK, ESQ.  
TWO MILITIA DRIVE  
LEXINGTON, MA 02173



\*100046762A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/31/1995

REEL/FRAME: 7568/0232  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

HOLMES-FARLEY, STEPHEN RANDALL

DOC DATE: 07/13/1995

**ASSIGNOR:**

MANDEVILLE, W. HARRY, III

DOC DATE: 07/13/1995

**ASSIGNOR:**

WHITESIDES, GEORGE M.

DOC DATE: 07/14/1995

**ASSIGNEE:**

GELTEX PHARMACEUTICALS, INC.  
303 BEAR HILL ROAD  
WALTHAM, MASSACHUSETTS 02154

SERIAL NUMBER: 08471747

PATENT NUMBER:

FILING DATE: 06/06/1995

ISSUE DATE:

7568/0232 PAGE 2

SEDLEY PYNE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Tab settings

08-21-1995

ER S.

ET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

GTX94/01A2



To the Honorable Commissioners

the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Stephen Randall Holmes-Farley  
W. Harry Mandeville, III  
George M. WhitesidesAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: GelTex Pharmaceuticals, Inc.

Internal Address: \_\_\_\_\_

Street Address: 303 Bear Hill Road

City: Waltham State: MA ZIP: 02154

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_

Execution Date: 1&amp;2 7/13/95; 3-7/14/95

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

08/471,747

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David E. Brook, Esq.

Internal Address: Hamilton, Brook,  
Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02173

6. Total number of applications and patents involved: 

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

080 TL 08/14/95 08471747

DO NOT USE THIS SPACE

1 581

40.00 CK

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carolyn S. Elmore

Name of Person Signing

  
Signature7/27/95  
DateTotal number of pages including cover sheet, attachments, and document: Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

Joint

ASSIGNMENT

WHEREAS, we, Stephen Randall Holmes-Farley, W. Harry Mandeville, III and George M. Whitesides have invented a certain improvement in **PHOSPHATE-BINDING POLYMERS FOR ORAL ADMINISTRATION** described in an application for Letters Patent of the United States, Serial No. 08/471,747, filed June 6, 1995.

WHEREAS, GelTex Pharmaceuticals, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 303 Bear Hill Road, Waltham, Massachusetts 02154, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of the said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution

of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor Stephen Randall Holmes-Farley Date 7/13/95  
Stephen Randall Holmes-Farley

Address 20 Norfolk Road,  
Arlington, Massachusetts 02174

Witness Amy Wilson Date 7/13/95  
Amy Wilson

Address 1617 Mass Ave #3  
Cambridge MA 02138

Witness Sue Bodenrader Date 7/13/95  
Sue Bodenrader

Address 25 Allen Street  
Arlington, MA 02174

Inventor W. Harry Mandeville, III Date 7/13/95  
W. Harry Mandeville, III

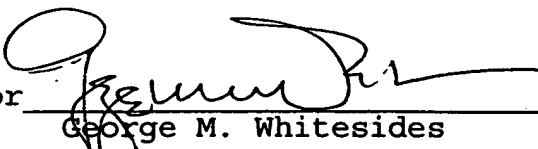
Address 7 Pillings Pond Road  
Lynnfield, Massachusetts 01940

Witness Amy Wilson Date 7/13/95  
Amy Wilson

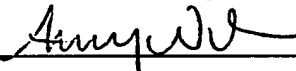
Address 1617 Mass Ave #3  
Cambridge, MA 02138

Witness Sue Bodenrader Date 7/13/95  
Sue Bodenrader


Address 25 Allen Street  
Arlington, MA 02174

Inventor  Date 7/14/95  
George M. Whitesides

Address 124 Grasmere Street  
Newton, Massachusetts 02158

Witness  Amy Wilson Date 7/14/95

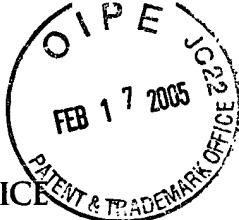
Address 1617 MASS AVE #3  
Cambridge MA 02138

Witness  Sue Date 7/14/95

Address 25 Allen Street, Arlington MA 02174



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



OCTOBER 06, 2003

PTAS

Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
www.uspto.gov

HAMILTON BROOK SMITH, ET AL.  
ALICE O. CARROLL, ESQ.  
530 VIRGINIA ROAD  
P.O. BOX 9133  
CONCORD, MA 01742-9133



\*102442187A\*

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/05/2003

REEL/FRAME: 014022/0197  
NUMBER OF PAGES: 11

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GELTEX PHARMACEUTICALS, INC.

DOC DATE: 03/27/2003

ASSIGNEE:

GENZYME CORPORATION  
ONE KENDALL SQUARE  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09655998  
PATENT NUMBER: 6605270

FILING DATE: 09/06/2000  
ISSUE DATE: 08/12/2003

SERIAL NUMBER: 09708828  
PATENT NUMBER:

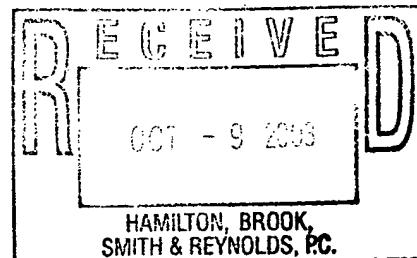
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ISSUE DATE:

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FILING DATE: 12/17/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 10/03/2002  
ISSUE DATE:



SERIAL NUMBER: 10081022  
PATENT NUMBER: 6593366

FILING DATE: 02/21/2002  
ISSUE DATE: 07/15/2003

SERIAL NUMBER: 09721310  
PATENT NUMBER:

FILING DATE: 11/22/2000  
ISSUE DATE:

SERIAL NUMBER: 09721291  
PATENT NUMBER:

FILING DATE: 11/22/2000  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 11/27/2002  
ISSUE DATE:

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PATENT NUMBER: 6572850

FILING DATE: 11/16/2000  
ISSUE DATE: 06/03/2003

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PATENT NUMBER: 6558657

FILING DATE: 11/16/2000  
ISSUE DATE: 05/06/2003

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PATENT NUMBER: 6566407

FILING DATE: 06/26/2001  
ISSUE DATE: 05/20/2003

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PATENT NUMBER:

FILING DATE: 12/19/2002  
ISSUE DATE:

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PATENT NUMBER: 6610283

FILING DATE: 04/05/1999  
ISSUE DATE: 08/26/2003

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PATENT NUMBER:

FILING DATE: 11/05/1997  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 05/29/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 12/19/2001  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 04/17/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 11/14/2002  
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PATENT NUMBER:

FILING DATE: 10/18/2000  
ISSUE DATE:



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PATENT NUMBER:

FILING DATE: 06/06/2001  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 06/27/2002  
ISSUE DATE:

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FILING DATE: 12/20/2002  
ISSUE DATE:

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PATENT NUMBER: 6565895

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ISSUE DATE: 05/20/2003

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ISSUE DATE:

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ISSUE DATE:

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FILING DATE: 04/17/2002  
ISSUE DATE:

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FILING DATE: 06/27/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 04/17/2002  
ISSUE DATE:

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FILING DATE: 04/17/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 06/27/2002  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 02/25/2003  
ISSUE DATE:

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PATENT NUMBER:

FILING DATE: 02/05/2003  
ISSUE DATE:

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PATENT NUMBER: 5487888

FILING DATE: 05/20/1993  
ISSUE DATE: 01/30/1996

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PATENT NUMBER: 5702696

FILING DATE: 12/06/1995  
ISSUE DATE: 12/30/1997

SERIAL NUMBER: 08258477  
PATENT NUMBER: 5624963

FILING DATE: 06/10/1994  
ISSUE DATE: 04/29/1997

SERIAL NUMBER: 08482969  
PATENT NUMBER: 5703188

FILING DATE: 06/07/1995  
ISSUE DATE: 12/30/1997

SERIAL NUMBER: 08959471  
PATENT NUMBER: 5840766

FILING DATE: 10/28/1997  
ISSUE DATE: 11/24/1998

SERIAL NUMBER: 09191868  
PATENT NUMBER: 6060517

FILING DATE: 11/12/1998  
ISSUE DATE: 05/09/2000

SERIAL NUMBER: 08238458  
PATENT NUMBER: 5496545

FILING DATE: 05/05/1994  
ISSUE DATE: 03/05/1996

SERIAL NUMBER: 08471747  
PATENT NUMBER: 5667775

FILING DATE: 06/06/1995  
ISSUE DATE: 09/16/1997

SERIAL NUMBER: 08929784  
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FILING DATE: 09/15/1997  
ISSUE DATE: 07/04/2000

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PATENT NUMBER: 6509013

FILING DATE: 04/04/2000  
ISSUE DATE: 01/21/2003

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PATENT NUMBER: 5679717

FILING DATE: 06/05/1995  
ISSUE DATE: 10/21/1997

SERIAL NUMBER: 09288357  
PATENT NUMBER: 5981693

FILING DATE: 04/08/1999  
ISSUE DATE: 11/09/1999

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PATENT NUMBER: 5917007

FILING DATE: 08/05/1998  
ISSUE DATE: 06/29/1999

SERIAL NUMBER: 09388876  
PATENT NUMBER: 6066678

FILING DATE: 09/02/1999  
ISSUE DATE: 05/23/2000

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PATENT NUMBER: 5693675

FILING DATE: 06/05/1995  
ISSUE DATE: 12/02/1997

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PATENT NUMBER: 6225355

FILING DATE: 03/22/2000  
ISSUE DATE: 05/01/2001

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PATENT NUMBER: 6433026

FILING DATE: 03/09/2001  
ISSUE DATE: 08/13/2002

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PATENT NUMBER: 5607669

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ISSUE DATE: 03/04/1997

SERIAL NUMBER: 08779779  
PATENT NUMBER: 5919832

FILING DATE: 01/07/1997  
ISSUE DATE: 07/06/1999

SERIAL NUMBER: 08469659  
PATENT NUMBER: 5618530

FILING DATE: 06/06/1995  
ISSUE DATE: 04/08/1997

SERIAL NUMBER: 08659264  
PATENT NUMBER: 5900475

FILING DATE: 06/06/1996  
ISSUE DATE: 05/04/1999

SERIAL NUMBER: 09185157  
PATENT NUMBER: 5969090

FILING DATE: 11/03/1998  
ISSUE DATE: 10/19/1999

SERIAL NUMBER: 08670764  
PATENT NUMBER: 6034129

FILING DATE: 06/24/1996  
ISSUE DATE: 03/07/2000

SERIAL NUMBER: 09493639  
PATENT NUMBER: 6395777

FILING DATE: 01/28/2000  
ISSUE DATE: 05/28/2002

SERIAL NUMBER: 08826197  
PATENT NUMBER: 5925379

FILING DATE: 03/27/1997  
ISSUE DATE: 07/20/1999

SERIAL NUMBER: 08999351  
PATENT NUMBER: 6129910

FILING DATE: 12/29/1997  
ISSUE DATE: 10/10/2000

SERIAL NUMBER: 09166453  
PATENT NUMBER: 6264937

FILING DATE: 10/05/1998  
ISSUE DATE: 07/24/2001

SERIAL NUMBER: 09353329  
PATENT NUMBER: 6299868

FILING DATE: 07/14/1999  
ISSUE DATE: 10/09/2001

SERIAL NUMBER: 09166510  
PATENT NUMBER: 6267952

FILING DATE: 10/05/1998  
ISSUE DATE: 07/31/2001

SERIAL NUMBER: 09226585  
PATENT NUMBER: 6352692

FILING DATE: 01/06/1999  
ISSUE DATE: 03/05/2002

SERIAL NUMBER: 08999029  
PATENT NUMBER: 5929184

FILING DATE: 12/29/1997  
ISSUE DATE: 07/27/1999

SERIAL NUMBER: 08964956  
PATENT NUMBER: 5985938

FILING DATE: 11/05/1997  
ISSUE DATE: 11/16/1999

SERIAL NUMBER: 09359226  
PATENT NUMBER: 6177478

FILING DATE: 07/22/1999  
ISSUE DATE: 01/23/2001

SERIAL NUMBER: 09668874  
PATENT NUMBER: 6281252

FILING DATE: 09/25/2000  
ISSUE DATE: 08/28/2001

SERIAL NUMBER: 08934495  
PATENT NUMBER: 6007803

FILING DATE: 09/19/1997  
ISSUE DATE: 12/28/1999

SERIAL NUMBER: 09597343  
PATENT NUMBER: 6290947

FILING DATE: 06/19/2000  
ISSUE DATE: 09/18/2001

SERIAL NUMBER: 08777408  
PATENT NUMBER: 6203785

FILING DATE: 12/30/1996  
ISSUE DATE: 03/20/2001

SERIAL NUMBER: 09568825  
PATENT NUMBER: 6482402

FILING DATE: 05/11/2000  
ISSUE DATE: 11/19/2002

SERIAL NUMBER: 09298350  
PATENT NUMBER: 6190649

FILING DATE: 04/23/1999  
ISSUE DATE: 02/20/2001

SERIAL NUMBER: 09203319  
PATENT NUMBER: 6271264

FILING DATE: 12/01/1998  
ISSUE DATE: 08/07/2001

SERIAL NUMBER: 08979096  
PATENT NUMBER: 6423754

FILING DATE: 11/26/1997  
ISSUE DATE: 07/23/2002

SERIAL NUMBER: 08964536  
PATENT NUMBER: 6083497

FILING DATE: 11/05/1997  
ISSUE DATE: 07/04/2000

SERIAL NUMBER: 09311402  
PATENT NUMBER: 6264938

FILING DATE: 05/13/1999  
ISSUE DATE: 07/24/2001

SERIAL NUMBER: 09311103  
PATENT NUMBER: 6365186

FILING DATE: 05/13/1999  
ISSUE DATE: 04/02/2002

SERIAL NUMBER: 09521975  
PATENT NUMBER: 6248318

FILING DATE: 03/09/2000  
ISSUE DATE: 06/19/2001

SERIAL NUMBER: 09165386  
PATENT NUMBER: 6294163

FILING DATE: 10/02/1998  
ISSUE DATE: 09/25/2001

SERIAL NUMBER: 09541268  
PATENT NUMBER: 6270755

FILING DATE: 04/03/2000  
ISSUE DATE: 08/07/2001

SERIAL NUMBER: 09569276  
PATENT NUMBER: 6290946

FILING DATE: 05/11/2000  
ISSUE DATE: 09/18/2001

SERIAL NUMBER: 09878843  
PATENT NUMBER: 6419914

FILING DATE: 06/11/2001  
ISSUE DATE: 07/16/2002

SERIAL NUMBER: 09713784  
PATENT NUMBER: 6517825

FILING DATE: 11/15/2000  
ISSUE DATE: 02/11/2003





SERIAL NUMBER: 09723596  
PATENT NUMBER: 6517826

FILING DATE: 11/28/2000  
ISSUE DATE: 02/11/2003

SERIAL NUMBER: 09901206  
PATENT NUMBER: 6517827

FILING DATE: 07/09/2001  
ISSUE DATE: 02/11/2003

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

<b>RECORDATIO</b> <b>PAT</b> <b>OFFICE OF PUBLIC R</b> To the Commissioner, United States Patent and Trademark		05-07-2003  102442187	Documents or copy thereof.			
1. Name of conveying party(ies)  GelTex Pharmaceuticals, Inc. 153 Second Avenue Waltham, Massachusetts 02451  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies)  Name: <u>Genzyme Corporation</u>  Internal Address: _____  Street Address: <u>One Kendall Square</u>  City: <u>Cambridge</u> State: <u>MA</u> ZIP: <u>02139</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
3. Nature of conveyance: <input type="checkbox"/> Assignment <input checked="" type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>March 27, 2003</u>						
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ <table style="width: 100%;"> <tr> <td style="width: 50%;">A. Patent Application No.(s) See Schedule B</td> <td style="width: 50%;">B. Patent No.(s) See Schedule A</td> </tr> </table> Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				A. Patent Application No.(s) See Schedule B	B. Patent No.(s) See Schedule A	
A. Patent Application No.(s) See Schedule B	B. Patent No.(s) See Schedule A					
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>Alice O. Carroll, Esq.</u>  Internal Address: _____  <u>Hamilton, Brook, Smith &amp; Reynolds, P.C.</u>  Street Address: <u>530 Virginia Road, P.O. Box 9133</u>  City: <u>Concord</u> State: <u>MA</u> ZIP: <u>01742-9133</u>	6. Total number of applications and patents involved: <u>[90]</u>  7. Total Fee (37 C.F.R. 3.41)..... \$ <u>3,600.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge any deficiencies or credit any overpayment to deposit account <input type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number:  <u>08-0380</u>  (Attach duplicate copy of this page if paying by deposit account)					
<b>DO NOT USE THIS SPACE</b>						
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table style="width: 100%;"> <tr> <td style="width: 35%; text-align: center;"> <u>Alice O. Carroll</u>            Name of Person Signing         </td> <td style="width: 35%; text-align: center;">             Signature         </td> <td style="width: 30%; text-align: center;"> <u>April 14, 2003</u>            Date         </td> </tr> </table>				<u>Alice O. Carroll</u> Name of Person Signing	 Signature	<u>April 14, 2003</u> Date
<u>Alice O. Carroll</u> Name of Person Signing	 Signature	<u>April 14, 2003</u> Date				
Total number of pages including cover sheet, attachments, and document: <u>[ 11 ]</u>						

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U.S. PATENTS  
Schedule A

<i>Application Number</i>	<i>Patent Number</i>	<i>Application Date</i>	<i>Issue Date</i>	<i>Docket Number and Client Reference No.</i>
08/065,546	5,487,888	20MY1993	30JA1996	1932.1002-000 05329/003001
08/567,933	5,702,696	06DE1995	30DE1997	1932.1002-004 1011 US
08/258,477	5,624,963	10JE1994	29AP1997	1932.1003-004 05328/013001
08/482,969	5,703,188	07JE1995	30DE1997	1932.1003-016 05328/013001
08/959,471	5,840,766	28OC1997	24NO1998	1932.1003-017 1022 US D1
09/191,868	6,060,517	12NO1998	09MY2000	1932.1003-018 1022D1C1 US
08/238,458	5,496,545	05MY1994	05MR1996	1932.1004-001 1031 US
08/471,747	5,667,775	06JE1995	16SE1997	1932.1004-012 1032 US
08/929,784	6,083,495	15SE1997	04JL2000	1932.1004-024 1032D1 US
09/542,329	6,509,013	04AP2000	21JA2003	1932.1004-035 1036 US
08/460,980	5,679,717	05JE1995	21OC1997	1932.1005-002 1041 US
09/288,357	5,981,693	08AP1999	09NO1999	1932.1005-032 1041D1C2 US
09/129,286	5,917,007	05AU1998	29JE1999	1932.1005-034 1041D1C1 US
09/388,876	6,066,678	02SE1999	23MY2000	1932.1005-035 1041D1C3 US
08/461,298	5,693,675	05JE1995	02DE1997	1932.1005-036 1043 US
09/532,984	6,225,355	22MR2000	01MY2001	1932.1005-037 1041D1C4 US

<i>Application Number</i>	<i>Patent Number</i>	<i>Application Date</i>	<i>Issue Date</i>	<i>Docket Number and Client Reference No.</i>
09/803,647	6,433,026	09MR2001	13AU2002	1932.1005-039
08/471,769	5,607,669	06JE1995	04MR1997	1932.1007-001 1061 US
08/779,779	5,919,832	07JA1997	06JL1999	1932.1007-002 1061D1 US
08/469,659	5,618,530	06JE1995	08AP1997	1932.1007-003 1062 US
08/659,264	5,900,475	06JE1996	04MY1999	1932.1007-004 1063 US
09/185,157	5,969,090	03NO1998	19OC1999	1932.1007-018 1063C1 US
08/670,764	6,034,129	24JE1996	07MR2000	1932.1019-000 1180 US
09/493,639	6,395,777	28JA2000	28MY2002	1932.1019-013 1180C2 US
08/826,197	5,925,379	27MR1997	20JL1999	1932.1021-000 1200 US
08/999,351	6,129,910	29DE1997	10OC2000	1932.1028-002
09/166,453	6,264,937	05OC1998	24JL2001	1932.1030-001 1291 US
09/353,329	6,299,868	14JL1999	09OC2001	1932.1030-004 1292 US
09/166,510	6,267,952	05OC1998	31JL2001	1932.1031-001 1301 US
09/226,585	6,352,692	06JA1999	05MR2002	1932.1031-002 1302 US
08/999,029	5,929,184	29DE1997	27JL1999	1932.1032-001 1310 US
08/964,956	5,985,938	05NO1997	16NO1999	1932.1033-000 1320 US
09/359,226	6,177,478	22JL1999	23JA2001	1932.1033-010 1320 US C1
09/668,874	6,281,252	25SE2000	28AU2001	1932.1033-013 1321C2 US

<i>Application Number</i>	<i>Patent Number</i>	<i>Application Date</i>	<i>Issue Date</i>	<i>Docket Number and Client Reference No.</i>
08/934,495	6,007,803	19SE1997	28DE1999	1932.1037-000 1360 US
09/597,343	6,290,947	19JE2000	18SE2001	1932.1037-013 1361 US
08/777,408	6,203,785	30DE1996	20MR2001	1932.1041-000 1400 US
09/568,825	6,482,402	11MY2000	19NO2002	1932.1046-001 1451 US
09/298,350	6,190,649	23AP1999	20FE2001	1932.1049-000 150
09/203,319	6,271,264	01DE1998	07AU2001	1932.1051-000 1520
08/979,096	6,423,754	08NO1999	23JL2002	1932.1062-002 1631 IN
08/964,536	6,083,497	05NO1997	04JL2000	1932.1064-000 1650 US
09/311,402	6,264,938	13MY1999	24JL2001	1932.1064-010 1651 US
09/311,103	6,365,186	13MY1999	02AP2002	1932.1064-013 1652 US
09/521,975	6,248,318	09MR2000	19JE2001	1932.1064-016 1652 US
09/165,386	6,294,163	02OC1998	25SE2001	1932.1067-000 1680 US
09/541,268	6,270,755	03AP2000	07AU2001	1932.1102-001 2031
09/569,276	6,290,946	11MY2000	18SE2001	1932.1102-008 203.2 US
09/878,843	6,419,914	11JE2001	16JL2002	1932.1102-011 203.2
09/713,784	6,517,825	15NO2000	11FE2003	1932.1049-003 1501
09/723,596	6,517,826	28NO2000	11FE2003	1932.1102-010 203.1 US D1



<i>Application Number</i>	<i>Patent Number</i>	<i>Application Date</i>	<i>Issue Date</i>	<i>Docket Number and Client Reference No.</i>
09/901,206	6,517,827	09JL2001	11FE2003	1932.1102-012 2031C2 US

U.S. PATENT APPLICATIONS  
Schedule B

<i>Application Number</i>	<i>Filing Date</i>	<i>Attorney Docket Number</i>	<i>Client Reference Number</i>
09/655,998	06SE2000	1932.1002-007	1011D1C2 US
09/708,828	08NO2000	1932.1003-020	1023D1C3 US
10/322,904	17DE2002	1932.1004-073	1031USD1C2
10/264,350	03OC2002	1932.1005-041	
10/081,022	21FE2002	1932.1019-015	118 USC2D1
10/374,014	25FE2003	1932.1019-016	
09/721,310	22NO2000	1932.1030-024	1291D1 US
09/721,291	22NO2000	1932.1030-025	1292D2 US
10/307,151	27NO2002	1932.1030-045	
09/714,327	16NO2000	1932.1031-020	1301D1 US
09/714,541	16NO2000	1932.1031-021	1302D2 US
10/359,458	02FE2003	1932.1031.023	1302USD3
09/891,720	26JE2001	1932.1033-016	1320USC2C1
10/324,623	19DE2002	1932.1037-016	
09/286,341	05AP1999	1932.1041-018	1401 US
08/964,498	22DE1999	1932.1043-000	1420 US
10/158,207	29MY2002	1932.1062-021	4631USC1
10/025,184	19DE2001	1932.1064-033	165
10/125,702	17AP2002	1932.1072-003	1731US
10/295,019	14NO2002	1932.1102-031	2031C2 US
09/847,053	01MY2001	1932.1104-003	2051US
10/051,766	17JA2002	1932.1110-001	
10/051,765	17JA2002	1932.1110-002	2111 US
09/691,429	18OC2000	1932.2005-002	148.2 US
09/875,275	06JE2001	1932.2005-010	1482US

<i>Application Number</i>	<i>Filing Date</i>	<i>Attorney Docket Number</i>	<i>Client Reference Number</i>
10/187,316	27JE2002	1932.2019-002	3012US
10/327,627	20DE2002	1932.2029-002	
09/877,723	08JE2001	1932.2032-001	316.1US
09/610,246	06JL2000	1932.2045-001	
10/125,684	17AP2002	1932.2061-004	3511US
10/125,793	17AP2002	1932.2075-003	3650
10/125,780	17AP2002	1932.2076-003	3661US
10/187,397	27JE2002	1932.2084-002	
10/125,701	17AP2002	1932.2088-006	3821US
10/125,685	17AP2002	1932.2089-003	3841US
10/187,315	27JE2002	1932.2095-001	
10/374,014	25FE2003	1932.1019-016	118.0 C3
10/359,458	05FE2003	1932.1031-023	

Examiner

**The Commonwealth of Massachusetts****William Francis Galvin**

Secretary of the Commonwealth

One Ashburton Place, Boston, Massachusetts 02108-1512

**ARTICLES OF MERGER OF PARENT AND SUBSIDIARY CORPORATIONS**

(General Laws, Chapter 156B, Section 82)

We, Michael S. Wyzga, ~~XXXXXXXX~~ <sup>Sr.</sup> President / \*Vice President,and Peter Wirth, \*Clerk ~~XXXXXXXXXXXX~~of Genzyme Corporation  
(Exact name of corporation)organized under the laws of Massachusetts and herein called the parent corporation,  
certify as follows:

1. That the subsidiary corporation(s) to be merged into the parent corporation is/are:

NAME	STATE OF ORGANIZATION	DATE OF ORGANIZATION
GelTex Pharmaceuticals, Inc.	MA	September 11, 2000

(720 720693)

2. The parent corporation, at the date of the vote, owned not less than ninety percent (90%) of the outstanding shares of each class of stock of the subsidiary corporation or corporations with which it has voted to merge.

Item 3 below may be deleted if all the corporations are organized under the laws of Massachusetts and if General Laws, Chapter 156B is applicable to them.

3. ~~THAT THE CASE OF EACH OF THE ABOVE NAMED CORPORATIONS, THE LAWS OF THE STATE OF MASSACHUSETTS, BEFORE THE MERGER HEREIN DESCRIBED, AND THAT ALL ACTIONS REQUIRED UNDER THE LAWS OF EACH SUCH STATE IN CONNECTION WITH THIS MERGER HAS BEEN FULLY TAKEN~~

\*Delete the inapplicable words. In case the parent corporation is organized under the laws of a state other than Massachusetts, these articles are to be signed by officers having corresponding powers and duties.

4. That at a meeting of the directors of the parent corporation, the following vote, pursuant to General Laws, Chapter 156B, Section 82, Subsection (a) was duly adopted:

Approval of the Merger of GelTex Pharmaceuticals, Inc.

VOTED: That the Company is hereby authorized to merge GelTex Pharmaceuticals, Inc., a Massachusetts corporation, into the Company with the Company being the surviving entity.

VOTED: That the merger is approved and declared to be advisable and in the best interests of the Company.

VOTED: That upon adoption of this vote, the Company be, and hereby is, authorized to consummate the transaction and the President of the Company be, and hereby is, authorized and directed to execute and deliver any and all documents necessary to effect the merger on behalf of the Company.

VOTED: That the merger shall be effective on the date that Articles of Merger are filed with the Secretary of the Commonwealth of Massachusetts, provided that the President is authorized to specify a different effective date in the Articles of Merger which is not more than thirty (30) days after the Articles of Merger are filed.

General Authorization Vote

VOTED: That the proper officers of the Company are hereby authorized to execute and deliver such documents and take such other actions as they or any of them deem necessary or advisable to implement the transactions contemplated by the foregoing votes.

5. The effective date of the merger shall be the date approved and filed by the Secretary of the Commonwealth. If a *later* effective date is desired, specify such date, which shall not be more than *thirty days* after the date of filing:

April 1, 2003

Section 6 below may be deleted if the parent corporation is organized under the laws of Massachusetts.

~~6. The parent corporation hereby agrees that it may be sued in the Commonwealth of Massachusetts for any prior obligation of any corporation organized under the laws of Massachusetts, and any obligation hereafter incurred by the parent corporation, including the obligation created by Chapter 150B, Section 82, subsection (c), so long as any liability regarding outstanding debts of the parent corporation in the Commonwealth of Massachusetts, and hereby the parent corporation agrees to accept jurisdiction of process in any such suit for the enforcement of any such obligations, including taxes in the state hereby as provided in Chapter 187.~~

SIGNED UNDER THE PENALTIES OF PERJURY, this 27th day of March, 20 03.

  
\_\_\_\_\_, ~~XXXXXXXX~~ Sr.  
President / Vice President,

  
\_\_\_\_\_, \*Clerk / ~~XXXXXXXX~~

\*Delete the inapplicable words. In case the parent corporation is organized under the laws of a state other than Massachusetts, these articles are to be signed by officers having corresponding powers and duties.

05/01/0888

THE COMMONWEALTH OF MASSACHUSETTS

834156

ARTICLES OF MERGER OF PARENT AND SUBSIDIARY CORPORATIONS

(General Laws, Chapter 156B, Section 82)

03 APR .1 PM 3:38  
CORPORATION DIVISION

I hereby approve the within Articles of Merger of Parent and Subsidiary Corporations and, the filing fee in the amount of \$ 250, having been paid, said articles are deemed to have been filed with me this 1st day of April, 20 03.

Effective date:

4/1/2003

*William Francis Galvin*

**WILLIAM FRANCIS GALVIN**

*Secretary of the Commonwealth*

**TO BE FILLED IN BY CORPORATION**

**Contact information:**

Genzyme Corporation - Attention: Karen M. Heffernan

One Kendall Square, 1400 Bldg., Legal Department

Cambridge, MA 02139

Telephone: 617-591-5612

Email: karen.heffernan@genzyme.com

A copy this filing will be available on-line at [www.state.ma.us/sec/cor](http://www.state.ma.us/sec/cor) once the document is filed.